



Engagement

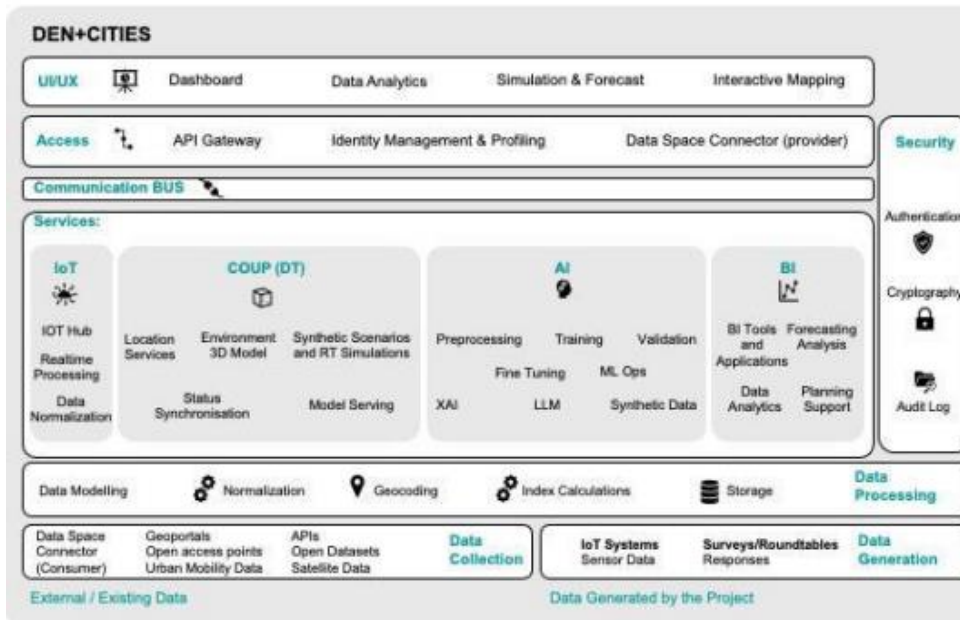
DEN Cities – Designing Energy Neutral+ Cities through People-First Public Space and Energy Planning

Countries	Project value (€)	% by EPSILON	€ by EPSILON	Engagement	Funding by	Date	Partners
EU, AL, MA, KE, TR, UZ	15,696,150	6.06%	950,659	Tender	HORIZON-MISS-2024-CIT-01-01	2025	EPSILON (MT), UNIROMA1 (IT), GEHL (DK), Green4Cities (AT), HCU Hamburg (DE), NTUA (EL), Scenerii (DE), ALMAVIVA (IT), DAEM (EL), UM6P (MA), OASC (BE), Comune di Ascoli Piceno (IT), Split (HR), Izmit

Description

DEN Cities proposed to develop a scalable, people-first model for designing Energy Neutral+ (EN+) districts, aiming to transform urban density into a tool for climate-neutral transitions. Through participatory public space redesign, integration of nature-based solutions (NBS), and advanced urban digital twins (CDTs), the project addressed energy consumption, pollution mitigation, and inclusive spatial allocation. The solution linked dynamic curb design, multi-modal mobility, and real-time data-driven tools to improve quality of life, social equity, and energy efficiency.

EPSILON would contribute to the design and implementation of digital tools that integrated Copernicus, CubeSat, and BIM-based models, enabling evidence-based urban energy management. It would also support stakeholder engagement and co-creation processes in alignment with the project’s broader city pilot framework across Rome, Athens, Hamburg, and follower cities.



Outcome

- Proposed to develop the DEN+Cities Framework integrating energy, mobility, inclusivity, and quality of life
- Aimed to create a modular toolkit with AI-enabled policy simulation, real-time mobility planning, and NBS deployment
- Suggested to pilot digital twins in 3 lead cities and 6 follower cities with diverse climate and density profiles
- Proposed to deliver pre-standardization documents including the CEN Workshop Agreement for urban energy metrics
- Aimed at engaging over 400 citizens and 50 stakeholders in co-creation via digital tools, games, and living labs
- Planned to achieve projected 30% district energy reduction and 50% renewable share in pilot areas
- Proposed to release a Digital Knowledge Hub, board game, and open-access policy toolkits supporting replicability
- Suggested to facilitate adoption in cities beyond pilots through standardized guidelines and training modules